

## INFORMATION PAPER

### ON

## MISSILE APPROACH WARNING SYSTEM

**1. Background.** The A/OA-10 flies many of its missions at altitudes where it is particularly vulnerable to shoulder launched infrared (IR) missiles. The aircraft needs an IR missile warning system to notify the pilot when an IR Surface-to-Air Missile (SAM) is launched. In addition, the system should also pass launch information to a countermeasures set to automatically dispense infrared countermeasures. The AN/AAR-47 is a passive, missile-approach warning system consisting of four IR sensor assemblies, a central processing unit and a control indicator capable of detecting missile launches from 360 degrees around the aircraft.

**2. Requirement.** CAF 315-92-I/II/III Interim Close Air Support/ Interdiction and Covert Infrared Countermeasures (IRCM) Combat Mission Need Statement (Nov 01).

**3. Impacts if Not Funded.** The A-10 will continue to be vulnerable to IR launched missile threats, as the shoulder launched IR threat continues to proliferate.

**4. Units Impacted.**

103 FW Bradley, CT	104 FW Barnes, MA	110 FW Battle Creek, MI
111 FW Willow Grove, PA	124 WG Boise, ID	175 WG Baltimore, MD

**5. Contractor.** BAE Systems/Integrated Defense Solutions, Austin, TX

**6. Cost.**

Units Required	Unit Cost	Program Cost*
<b>RDT &amp; E (3600)</b>	<b>\$2.3M</b>	<b>\$2.3M</b>
<b>56 (3010)</b>	<b>\$.300M</b>	<b>\$16.8M</b>
<b>Total</b>		<b>\$19.1M</b>

\*Cost includes 10% spares and aircraft installation